



770.664.6513 (V) 770.664.6565 (F)

## Discharge Table For 3" Parshall Flume

Document: PAR3-D-T Date: 1-14-04 By: Jon Wachter

LEVEL		FLOW		
FEET	INCHES	CFS	GPM	MGD
0.01	0.12			
0.02	0.24			
0.03	0.36			
0.04	0.48			
0.05	0.60	0.0095	4.285	0.0062
0.06	0.72	0.0127	5.685	0.0082
0.07	0.84	0.0161	7.219	0.0104
0.08	0.96	0.0198	8.879	0.0128
0.09	1.08	0.0237	10.66	0.0153
0.10	1.20	0.0280	12.55	0.0181
0.11	1.32	0.0324	14.55	0.0209
0.12	1.44	0.0371	16.65	0.0240
0.13	1.56	0.0420	18.84	0.0271
0.14	1.68	0.0471	21.14	0.0304
0.15	1.80	0.0524	23.52	0.0339
0.16	1.92	0.0579	26.00	0.0374
0.17	2.04	0.0636	28.56	0.0411
0.18	2.16	0.0695	31.21	0.0449
0.19	2.28	0.0756	33.93	0.0489
0.20	2.40	0.0819	36.74	0.0529
0.21	2.52	0.0883	39.63	0.0571
0.22	2.64	0.0949	42.59	0.0613
0.23	2.76	0.1017	45.63	0.0657
0.24	2.88	0.1086	48.74	0.0702
0.25	3.00	0.1157	51.92	0.0748
0.26	3.12	0.1229	55.18	0.0795
0.27	3.24	0.1304	58.50	0.0842
0.28	3.36	0.1379	61.90	0.0891
0.29	3.48	0.1456	65.36	0.0941
0.30	3.60	0.1535	68.88	0.0992
0.31	3.72	0.1615	72.47	0.1044
0.32	3.84	0.1696	76.13	0.1096
0.33	3.96	0.1779	79.85	0.1150
0.34	4.08	0.1863	83.63	0.1204
0.35	4.20	0.1949	87.47	0.1260
0.36	4.32	0.2036	91.38	0.1316
0.37	4.44	0.2124	95.34	0.1373
0.38	4.56	0.2214	99.36	0.1431
0.39	4.68	0.2305	103.4	0.1490
0.40	4.80	0.2397	107.6	0.1549
0.41	4.92	0.2491	111.8	0.1610
0.42	5.04	0.2586	116.0	0.1671
0.43	5.16	0.2682	120.3	0.1733
0.44	5.28	0.2779	124.7	0.1796
0.45	5.40	0.2877	129.1	0.1860
0.46	5.52	0.2977	133.6	0.1924
0.47	5.64	0.3078	138.1	0.1989
0.48	5.76	0.3180	142.7	0.2055
0.49	5.88	0.3283	147.4	0.2122
0.50	6.00	0.3388	152.0	0.2190

LEVEL		FLOW		
FEET	INCHES	CFS	GPM	MGD
0.51	6.12	0.3493	156.8	0.2258
0.52	6.24	0.3600	161.6	0.2327
0.53	6.36	0.3708	166.4	0.2396
0.54	6.48	0.3817	171.3	0.2467
0.55	6.60	0.3927	176.2	0.2538
0.56	6.72	0.4038	181.2	0.2610
0.57	6.84	0.4151	186.3	0.2683
0.58	6.96	0.4264	191.4	0.2756
0.59	7.08	0.4379	196.5	0.2830
0.60	7.20	0.4494	201.7	0.2905
0.61	7.32	0.4611	206.9	0.2980
0.62	7.44	0.4728	212.2	0.3056
0.63	7.56	0.4847	217.5	0.3133
0.64	7.68	0.4967	222.9	0.3210
0.65	7.80	0.5088	228.3	0.3288
0.66	7.92	0.5210	233.8	0.3367
0.67	8.04	0.5332	239.3	0.3446
0.68	8.16	0.5456	244.9	0.3526
0.69	8.28	0.5581	250.5	0.3607
0.70	8.40	0.5707	256.1	0.3688
0.71	8.52	0.5834	261.8	0.3770
0.72	8.64	0.5962	267.6	0.3853
0.73	8.76	0.6091	273.3	0.3936
0.74	8.88	0.6220	279.2	0.4020
0.75	9.00	0.6351	285.0	0.4105
0.76	9.12	0.6483	291.0	0.4190
0.77	9.24	0.6616	296.9	0.4276
0.78	9.36	0.6749	302.9	0.4362
0.79	9.48	0.6884	308.9	0.4449
0.80	9.60	0.7019	315.0	0.4537
0.81	9.72	0.7156	321.2	0.4625
0.82	9.84	0.7293	327.3	0.4714
0.83	9.96	0.7432	333.5	0.4803
0.84	10.08	0.7571	339.8	0.4893
0.85	10.20	0.7711	346.1	0.4984
0.86	10.32	0.7852	352.4	0.5075
0.87	10.44	0.7994	358.8	0.5167
0.88	10.56	0.8137	365.2	0.5259
0.89	10.68	0.8281	371.6	0.5352
0.90	10.80	0.8425	378.1	0.5445
0.91	10.92	0.8571	384.7	0.5539
0.92	11.04	0.8717	391.2	0.5634
0.93	11.16	0.8865	397.8	0.5729
0.94	11.28	0.9013	404.5	0.5825
0.95	11.40	0.9162	411.2	0.5921
0.96	11.52	0.9312	417.9	0.6018
0.97	11.64	0.9463	424.7	0.6116
0.98	11.76	0.9614	431.5	0.6214
0.99	11.88	0.9767	438.3	0.6312
1.00	12.00	0.9920	445.2	0.6411

ASTM D 1941-91 (2001) - Standard Test Method for Open Channel Flow Measurement of Water with the Parshall Flume, pp3.



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**Discharge Table  
For  
3" Parshall Flume**

LEVEL		FLOW		
FEET	INCHES	CFS	GPM	MGD
1.01	12.12	1.007	452.1	0.6511
1.02	12.24	1.023	459.1	0.6611
1.03	12.36	1.039	466.1	0.6712
1.04	12.48	1.054	473.1	0.6813
1.05	12.60	1.070	480.2	0.6915
1.06	12.72	1.086	487.3	0.7017
1.07	12.84	1.102	494.4	0.7120
1.08	12.96	1.118	501.6	0.7224
1.09	13.08	1.134	508.8	0.7328
1.10	13.20	1.150	516.1	0.7432
1.11	13.32	1.166	523.4	0.7537
1.12	13.44	1.182	530.7	0.7642
1.13	13.56	1.199	538.1	0.7748
1.14	13.68	1.215	545.5	0.7855
1.15	13.80	1.232	552.9	0.7962
1.16	13.92	1.249	560.4	0.8070
1.17	14.04	1.265	567.9	0.8178
1.18	14.16	1.282	575.4	0.8286
1.19	14.28	1.299	583.0	0.8395
1.20	14.40	1.316	590.6	0.8505
1.21	14.52	1.333	598.2	0.8615
1.22	14.64	1.350	605.9	0.8726
1.23	14.76	1.367	613.6	0.8837
1.24	14.88	1.385	621.4	0.8948
1.25	15.00	1.402	629.2	0.9061
1.26	15.12	1.419	637.0	0.9173
1.27	15.24	1.437	644.9	0.9286
1.28	15.36	1.454	652.7	0.9400
1.29	15.48	1.472	660.7	0.9514
1.30	15.60	1.490	668.6	0.9628
1.31	15.72	1.508	676.6	0.9744
1.32	15.84	1.525	684.6	0.9859
1.33	15.96	1.543	692.7	0.9975
1.34	16.08	1.561	700.8	1.009
1.35	16.20	1.580	708.9	1.021
1.36	16.32	1.598	717.1	1.033
1.37	16.44	1.616	725.2	1.044
1.38	16.56	1.634	733.5	1.056
1.39	16.68	1.653	741.7	1.068
1.40	16.80	1.671	750.0	1.080
1.41	16.92	1.690	758.3	1.092
1.42	17.04	1.708	766.7	1.104
1.43	17.16	1.727	775.1	1.116
1.44	17.28	1.746	783.5	1.128
1.45	17.40	1.765	791.9	1.140
1.46	17.52	1.783	800.4	1.153
1.47	17.64	1.802	808.9	1.165
1.48	17.76	1.821	817.5	1.177
1.49	17.88	1.841	826.0	1.190
1.50	18.00	1.860	834.7	1.202

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